Title: NUCLEIC ACID ENCODING AN AVIAN E. COLI ISS POLYPEPTIDE AND METHODS OF USE Applicant(s): Lisa K. Notan' Serial No.: 09/738,599 ... Filed: December 15, 2000 Doc. 255.0001 01: Express Mail No.: EV 0737 31522 US



Sheet 1 of 6

Eciss	ATGCAGGATAATAAGATGAAAAAAATGTTATTTTCTGCCGCTCTGGCAATGCTTATTACA	60
102iss	ATGCAGGATAATAAGATGAAAAAAATGTTATTTTCTGCCGCTCTGGCAATGCTTATTACA	60
lambor	ATCGGGAATAACACCATGAAAAAAATGCTACTCGCTACTGCGCTGGCCCTGCTTATTACA	60
Eciss	GGATGTGCTCAACAAACGTTTACTGTTGGAAACAAACCGACAGCAGTAACACCAAAGGAA	120
102iss	GGATGTGCTCAACAAACGTTTACTGTTGGAAACAAACCGACAGCAGTAACACCAAAGGAA	120
lambor	GGATGTGCTCAACAGACGTTTACTGTTCAAAACAAACCGGCAGCAGTAGCACCAAAGGAA	120
Eciss	ACCATCACTCATCATTTCTTCGTTTCCCCAATTGGAC-AGAGAAAACTGTTGATGCAGCC	179
LCISS		1/9
102iss	ACCATCACTCATCATTTCTTCGTTTTCGGGAATTGGACAAGAGAAAACTGTTGATGCAGCC	180
102105		100
lambor	ACCATCACCCATCATTTCTTCGTTTCTGGAATTGGGCAGAAGAAAACTGTCGATGCAGCC	180
Eciss	AAAATTTGTTGGCGGTGCAGAAAATGTTGTTAAAACAGAAACTCAGCAAACATTCGTAAA	239
l02iss	AAAATTTG-TGGCGGTGCAGAAAATGTTGTTAAAACAGAAACTCAGCAAACATTCGTAAA	239
Lambor	AAAATTTG-TGGCGGCGCAGAAAATGTTGTTAAAACAGAAACCCAGCAAACATTCGTAAA	239
Saiss	TGCATTGCCCGGTTTTATCACTTTTGGCATCTATACTCCGCGGGAAACCCGTGTATATTG	299
l02iss	TGGATTGCTCGGTTTTATCACTTTTGGCATCTATACTCCGCTGGAAGCCCGGGTATATTG	299
lambor	TGGATTGCTCGGTTTTATTACTTTAGGCATTTATACTCCGCTGGAAGCGCGTGTGTATTG	299
Eciss	CTCACAATAG	309
L02iss	CTCACAATAG	309
		200
lambor	CTCACAATAA	309

Title: NUCLEIC ACID ENCODING AN AVIAN E. COLI ISS POLYPEPTIDE AND METHODS OF USE Applicant(s): Lisa K. Nolan et Serial No.: 09/738,599

Filed: December 15, 2000

Docke 5.0001 01

Sheet 2 of 6

O.G. FIG. class | sub

Iss_Ec	MQDNKMKKMLFSAALAMLITGCAQQTFTVGNKPTAVTPKETITHHFFVSPIGQRKLLMQP	60
102Iss	MQDNKMKKMLFSAALAMLITGCAQQTFTVGNKPTAVTPKETITHHFFVSGIGQEKTVDAA	60
lamBor	MKKMLLATALALLITGCAQQTFTVQNKPAAVAPKETITHHFFVSGIGQKKTVDAA	, 55
Iss_Ec	KFVGGAENVVKTETQQTFVNALPGFITFGIYTPRETRVYCSQ	102
	]:	
102Iss	KICGGAENVVKTETQQTFVNGLLGFITFGIYTPLEARVYCSQ	102
1 ampor	KTCCCA ENTAKTETOOTEVNGLI GETTI GTYTDI FARVYCSO	97

Applicant(s): Lisa K. Nolan e Serial No.: 09/738,599 Express Mail No.: EV 073731522 US

Filed: December 15, 2000

Doc 55.0001 012

Sheet 3 of 6

CLASS SUBCLASS

#### FIGURE 3

0 G P L G S M N GTT CTG TTC CAG GGG CCC CTG GGA TCC ATG CAG GAT AAT CTG GAA PreScission Protease iss fusion start BamHI K K K M  $\mathbf{L}$ F S Α Α L Α I AAG ATG AAA AAA ATG TTA TTT TCT GCC GCT CTG GCA ATG CTT ATT G C Α Q Q  $\mathbf{T}$ F . **T** G N K  $\mathbf{T}$ ACA GGA TGT GCT CAA CAA ACG TTT ACT GTT GGA AAC AAA CCG ACA P K E  ${f T}$ I  $\mathbf{T}$ H Η F GCA GTA ACA CCA AAG GAA ACC ATC ACT CAT CAT TTC TTC GTT TCG G Ι G 0 E K  $\mathbf{T}$ V D Α Α K C GGA ATT GGA CAA GAG AAA ACT GTT GAT GCA GCC AAA ATT TGT GGC G E N V V K  $\mathbf{T}$ E GGT GCA GAA AAT GTT GTT AAA ACA GAA ACT CAG CAA ACA TTC GTA  $\mathbf{L}$  $\mathbf{L}$ G F Ι Т G I P  $\mathbf{L}$ AAT GGA TTG CTC GGT TTT ATC ACT TTT GGC ATC TAT ACT CCG CTG

AGC TCA TCT GCG AAT TCC EcoRI

Y

C

S

GAA GCC CGG GTA TAT TGC TCA CAA TAG TTG CCC ATC GAT ATG GGG

E

Applicant(s): Lisa K. Nolar<sup>A</sup> 1. Serial No.: 09/738,599 Express Mail No.: EV 073731522 US

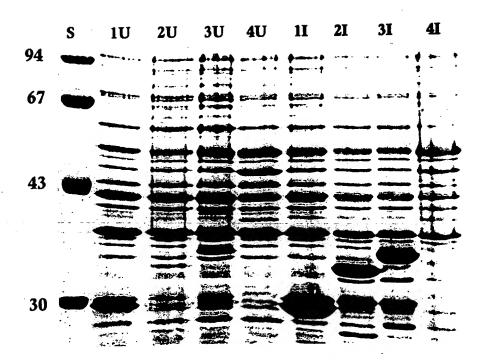
Filed: December 15, 2000

Do : 255.0001 0122

Sheet 4 of 6

ē .

APPICVIED O,G. FIG.
BY CLASS SUECLASS



Title: NUCLEIC ACID ENCODING AN AVIAN E. COLI ISS POLYPEPTIDE AND METHODS OF USE Applicant(s): Lisa K. Nolagola.

Serial No.: 09/738,599

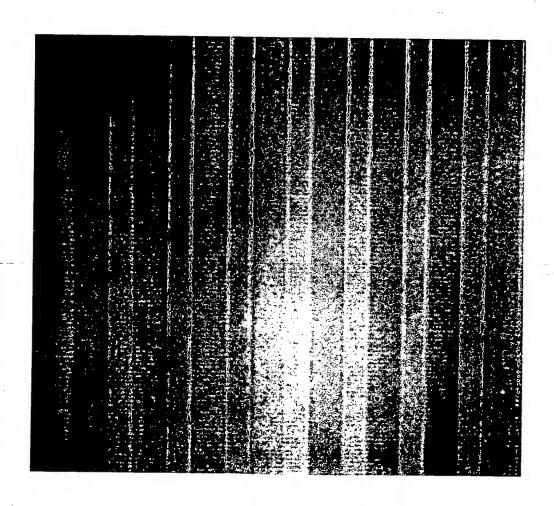
Filed: December 15, 2000

Express Mail No.: EV 073731522 US

D: 255.0001 0122

Sheet 5 of 6

Decimal And Hall



Title: NUCLEIC ACID ENCODING AN AVIAN *E. COLI* ISS POLYPEPTIDE AND METHODS OF USE Applicant(s): Lisa K. N al.

Serial No.: 09/738,599 Filed: December 15, 2000 et: 255.0001 01

Express Mail No.: EV 073731522 US

et: 255.0001 0122

Sheet 6 of 6

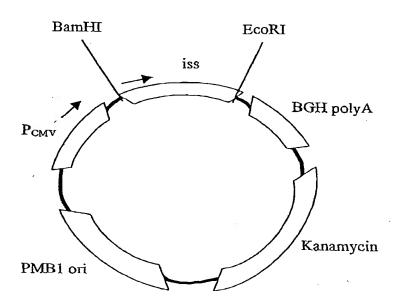


FIGURE 6